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MEETING NOTES**TO:** Distribution**DATE:** March 8, 1994**FROM:** Philip Nixon**MEMO #:** SP307:030894:01**PROJECT #:** Solar Pond IM/IRA**ATTENDANCE:****DISTRIBUTION:****DISTRIBUTION (CONT.)**

Phil Nixon, ES
 Dave Ericson, EG&G
 Lee Pivonka, G&M
 Shaleigh Whitsell, PRC
 Harlen Ainscough, CDH
 Tom Peters, PRC
 Scott Surovchak, DOE
 Steve Paris, EG&G
 Pat Breen, ES
 Harry Heidkamp, ES
 Andy Ledford, EG&G
 Mark Austin EG&G
 Arturo Duran, EPA
 Rick Wilkinson, ES
 Jeff Case, ERM
 John Haasbeek, ERM

L. Benson, ES
 A. Conklin, ES
 K. Cutter, ES
 S. Stenseng, ES
 A. Fricke, ES
 T. Kuykendall, ES
 T. Evans, ES
 B. Cropper, ES
 C. Montes, ES
 R. McConn, ES
 W. Edmonson, ES
 B. Wallace EG&G (Admin.
 Record) (2)
 S. Hughes, ES
 K. London, EG&G
 Martin McBride, DOE
 Helen Belencan, DOE
 Ted Kearns, DOE/KMI
 Steve Howard, DOE/SMS
 John Evans, ES

Steve Cooke, EG&G
 Joe Schieffelin, CDH
 Steve Keith, EG&G
 Dave Myers, ES
 R. Wilkinson, ES
 S. Winston, ES
 Kim Ruger, EG&G
 Michelle McKee, EG&G
 Marcia Dibiasi, IGO
 Rich Stegen, ES
 Bob Siegrist, LATO
 John Rampe, DOE
 Kevin Loos, DOE
 Frazer Lockhart, DOE
 Toni Moore, EG&G
 Peg Witherill, DOE
 Alan MacGregor, ERM
 Cindy Gee, ES
 Will Barnard, ES

SUBJECT: Weekly Status Meeting

- 1) The purpose of the meeting was to receive and discuss comments on the Part IV of the IM/IRA-EA decision document. ES received comments from EPA, PRC, and ERM/G&M. EPA comments were discussed.

Arturo had the following comments:

- The EPA does not want the document to be worded so that it appears as if OU4 is a CAMU test case. It would be preferred to state that the contaminated materials will be consolidated within the OU4 area and meet all the applicable ARARs (with a reference to the section where a Request for a CAMU designation is requested).
- The EPA requests that the DOE propose (within the IM/IRA-EA decision document) that remediation of the industrial area soils be deferred. The proposal should provide the rationalization and justification for deferring the remediation. In addition the DOE should commit that the soils in the area will be remediated at an appropriate future time. Harlen Ainscough indicated that the remediation should be deferred until closure (D&D) of the industrial area. **EG&G will discuss this with DOE and provide appropriate direction to E.S.**
- Arturo Duran stated that the removal of Building 788 should be incorporated into the subsequent part IV document that will be submitted at the first IAG milestone. Andy Ledford indicated that ES was working in parallel with the design effort to incorporate Building 788 into the IM/IRA-EA decision document.
- Arturo indicated that the design discussion could be enhanced by discussing what factors determined how thick each layer of the cover system should be.
- Arturo requested that a better explanation be provided to describe and explain the climatic input parameters to the HELP listed in Table IV.3-5 and elaborate on the results.
- Arturo recommended that the rationale and justification for the design be enhanced, with additional discussions on the performance criteria.

PRC and ERM/G&M provided their written comments to ES. ES will review the comments and discuss at a future team meeting any comment that needs clarification or team concurrence. DOE, EG&G and CDH had not completed their review and did not provide comments. CDH provided additional comments on Parts II and III to ES.

2) Liner Issue

Arturo Duran recommended on March 1, 1994 that the engineered cover design strategy be re-evaluated based on the RFI/RI results which indicate that the liners have low concentrations of hazardous constituents.

Harlen Ainscough indicated that he had discussed this issue with his CDH colleagues to determine whether the low contaminant concentrations in the liners could justify re-assessing the hazardous waste classification. CDH indicates that the liners remain a hazardous waste due to the mixture rule. Therefore, the siting criteria apply. However, the siting criteria state that the hazardous waste must be protective of human health and the environment for a 1000 year period or until the waste becomes innocuous. If DOE can demonstrate that the liners are currently innocuous, then there would not be a requirement to provide an engineered cover system to be protective for a 1000 year period. The RCRA closure requirements would need to be complied with. The total analysis data demonstrates that the SEP 207-A Pond liners are innocuous with respect to the PRGs based on ingestion, inhalation, and dermal exposure. DOE needs to also demonstrate that the liners concentrations are protective for ground water with respect to leaching. Liner characterization data is also needed from the other SEPs.

The CDH/EPA would like DOE to provide leachability data from both liners and soil so that any models used to predict leachability could be validated, and real analysis could be provided to substantiate/justify the engineered cover design.

3) Schedule

Harlen Ainscough indicated that a 1 month schedule extension was justifiable to:

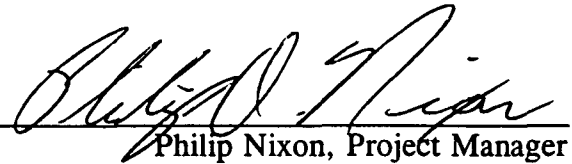
- Allow an appropriate review time, and
- re-evaluate the design approach

Harlen proposed that April 22 would be the new final comment date for comments on the Roundtable review draft (this date was agreed upon). CDH also questioned whether a new design/approach could be included in the proposed revised IAG milestone date of May 14, 1994. Scott Surovchack stated that a 30 day extension had been based on the design strategy remaining unchanged. Leachability tests and a re-design effort would be a substantial change to the scope of work.

It was agreed that a 30 day extension would be granted. During that period, DOE would assess how much additional time would be needed to re-evaluate the design strategy and design a selected

alternative. The emphasis of the design re-evaluation will focus on what is the most appropriate technical solution given the recent RFI/RI data. Cost savings will also be assessed for potential closure designs to see if any savings would outweigh the potential design and schedule impacts. Harlen Ainscough indicated that DOE may decide to maintain a conservative design due to the presence of radionuclides in the consolidated liners/soils.

EG&G will present a revised roundtable review schedule on March 11, 1994 which is likely to require final comments on Parts I, II and III by March 22, 1994 and final comments on Parts IV, V, and VI by April 22, 1994.



Philip Nixon, Project Manager

OPERABLE UNIT 4/SOLAR EVAPORATION PONDS

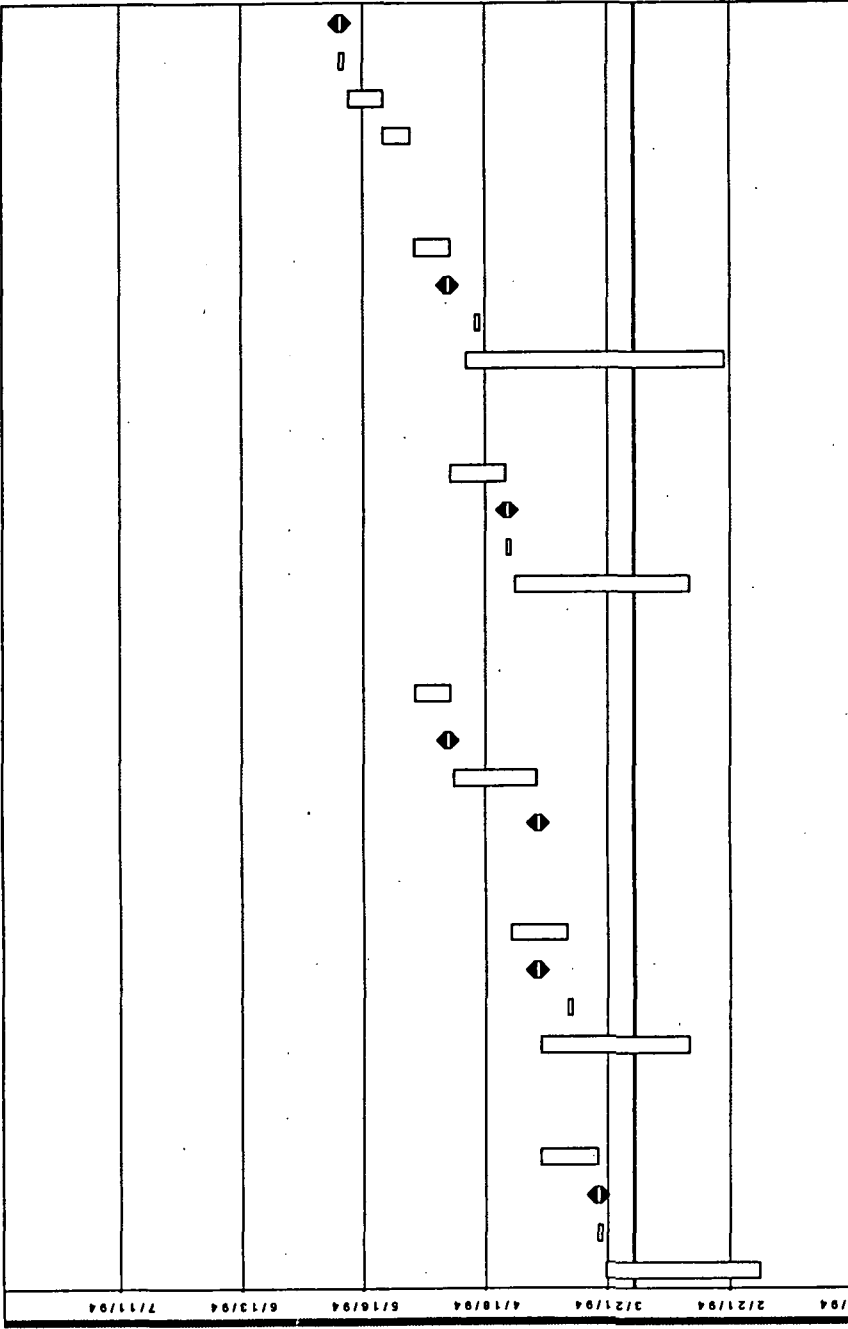
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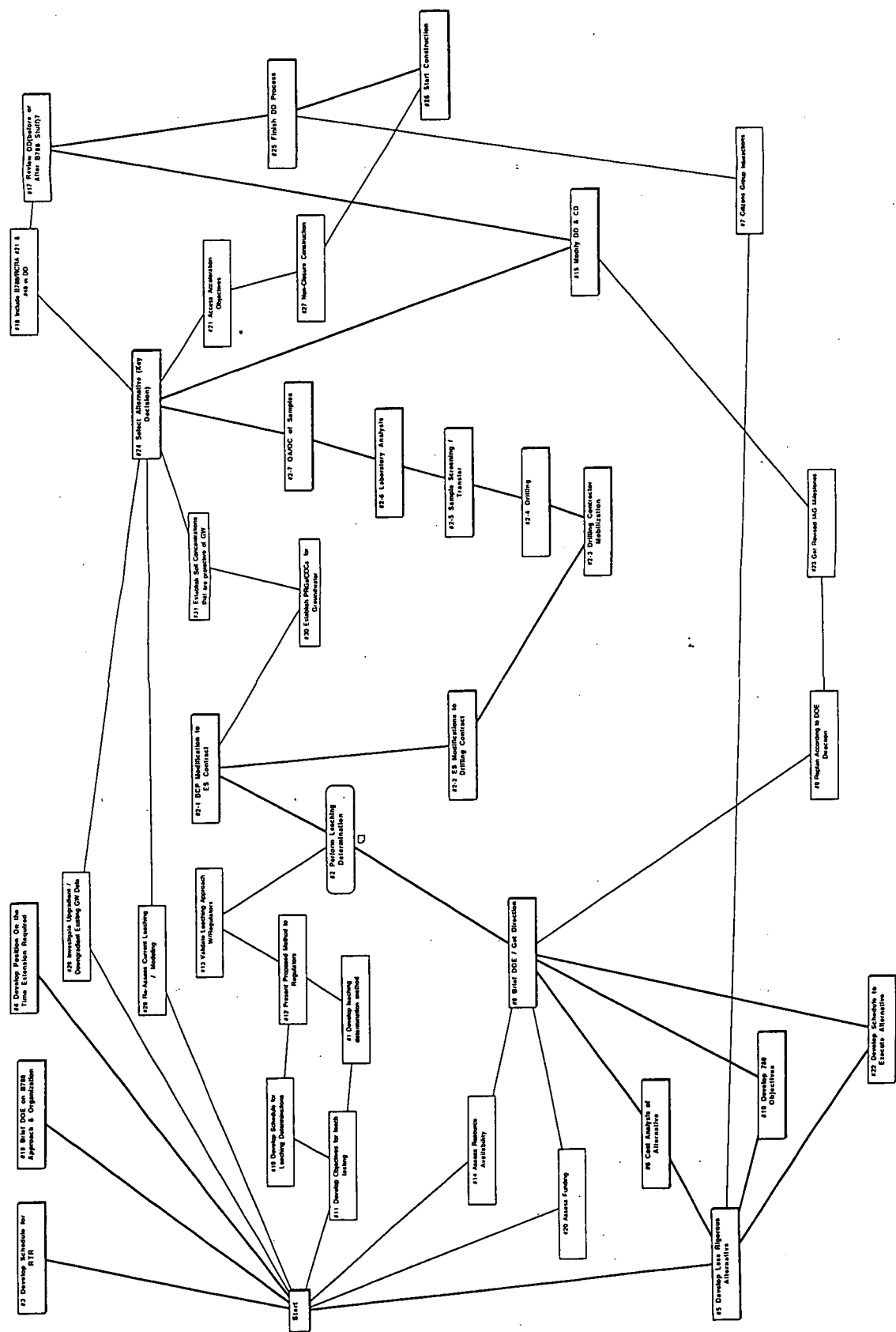
AGENDA

- **IM/IRA PART V REVIEW COMMENTS**
- **ROUNDTABLE REVIEW/MILESTONE EXTENSIONS**
- **BREAK**
- **PROPOSED LEACHING DETERMINATION METHOD**

OU-4 PHASE I REVISED ROUNDTABLE REVIEW PROCESS

Activity	Earliest Start	Earliest Finish	Duration	Float
Roundtable Review/Comment of Parts I, II and III	3/21/94	3/21/94	26	0
Team Meeting for Parts I, II and III	3/22/94	3/22/94	1	0
Final Comments Due for Part I, II, and III	3/22/94	3/22/94	0	0
Comment Incorporation / Resolution for Parts I, II and III	3/23/94	4/5/94	10	21
Roundtable Review/Comment of Part IV	3/21/94	4/5/94	25	0
Team Meeting for Part IV Review	3/29/94	3/29/94	1	0
Final Comments Due for Part IV	4/5/94	4/5/94	0	0
Comment Incorporation / Resolution for Part IV	3/30/94	4/12/94	10	16
Meeting To Distribute Bid 788 Modified Pages	4/8/94	4/8/94	1	0
Review of Building 788 Inclusions into M/R/A	4/8/94	4/25/94	14	0
Final Comments Due for Building 788 Inclusions	4/26/94	4/26/94	0	0
Comment Incorporation / Resolution for Bid 788	4/28/94	5/4/94	7	0
Roundtable Review of Part V	3/21/94	4/11/94	20	0
Team Meeting for Part V Review	4/12/94	4/12/94	1	0
Final Comments Due for Part V	4/12/94	4/12/94	0	0
Comment Incorporation / Resolution for Part V	4/13/94	4/26/94	10	6
Roundtable Review of Part VI	2/22/94	4/22/94	44	0
Team Meeting for Part VI & Bid 788 Inclusion Review	4/19/94	4/19/94	1	0
Final Comments Due for Part VI	4/26/94	4/26/94	0	0
Comment Incorporation / Resolution for Part VI	4/26/94	5/4/94	7	0
EG&G Final Review	5/5/94	5/11/94	5	0
Phin/Compile Draft Proposed Phase I M/R/A EA DP	5/11/94	5/19/94	7	0
Transmittal to EG&G	5/20/94	5/20/94	1	0
IAQ Commitment #1	5/20/94	5/20/94	0	0





Revised OU-4 Strategy

Revised OU-4 Strategy

Title: **Start**
Description: **Dummy Activity**

Title: **#1 Develop Leaching Determination Method**
Description: **Develop a work plan for field implementation and data assessment to determine the true leaching characteristics of the liners and soils.**

Title: **#2 Perform Leaching Determination**
Description: **Milestone / Hammock Activity that covers the leach testing field work.**

Title: **#2-1 BCP / Modification to ES Contract**
Description: **Funding approval through the RFP Plant Change Control Board, followed by a directed modification to Engineering Science to perform the leach testing field work.**

Title: **#2-2 ES Modification to drilling contractor**
Description: **Contract modification by ES to their existing drilling contractor to add additional drilling work.**

Title: **#2-3 Drilling Contractor Mobilization**
Description: **Equipment mobilization, inspection and training by the ES drilling contractor.**

Title: **#2-4 Drilling**
Description: **Actual field drilling activities to obtain soil and liner samples.**

Title: **#2-5 Sample Screening / Transfer**
Description: **EG&G screening and approval of the sample in order to transfer them off plant site and the actual transfer of the sample to an approved laboratory.**

Title: **#2-6 Laboratory Analysis**
Description: **Actual laboratory analysis of the drilling samples collected.**

Title: **#2-7 QA/QC of Samples**
Description: **Sample verification /validation.**

Title: **#3 Develop Schedule for RTR**
Description: **Develop a revised schedule for the extended roundtable review (RTR) period. This schedule indicates a milestone extension of 36 days.**

Title: **#4 Develop Position on Time Extension Required.**
Description: **Action taken by to develop a position on the additional time necessary to perform the leachability modeling.**

Title : **#5 Develop Less Rigorous Alternatives**
Description: **Identify and develop less rigorous cover designs to the 1,000 year engineered**

barrier. The alternate cover designs will be developed such that preliminary costs and schedules can be developed.

Title : #6 Cost Analysis of Alternatives

Description: Perform a cost analysis for comparison purposes for each of the identified alternate cover designs.

Title: #7 Citizens Group Interactions

Description: Plan and implementation of an informal presentation of the closure plan to a citizens group selected by the DOE, CDH and the EPA.

Title: #8 Brief DOE/ Get Direction

Description: Formal briefing by EG&G to the DOE for each of the identified alternatives. A cost and schedule analysis, current data based likelihood of utilizing any of these alternatives and an assessment of the current funding will be used in comparing each of the alternatives. Also included in this activity is DOE's review of the plan, internal decision-making and final approval of the plan to EG&G.

Title: #9 Replan According To DOE Direction

Description: Revision of the project baseline as required by the DOE direction. This plan will be in greater detail than the plan presented to the DOE for their direction. The firm dates derived from this plan will be used to request IAG milestone extensions.

Title: #10 Develop Building 788 Objectives.

Description: Determination of how Building 788 will be dispositioned based on each of the proposed alternatives.

Title: #11 Develop Objectives for Leach Testing

Description: Develop the objectives in providing data indicating the contaminated waste (i.e. liners) are innocuous and the contaminated media does not pose any leaching problems.

Title: #12 Present Proposed Method to the CDH and the EPA

Description: A briefing to CDH and the DOE on the proposed alternative assessment workplan and the formal transmittal of the workplan from the DOE to the CDH and the EPA.

Title: #13 Validate Leaching Approach with the EPA and the CDH

Description: Internal Regulatory agency review and Regulatory approval of the leach test workplan. The CDH and the EPA written approval of the workplan to the DOE.

Title: #14 Assess Resource Availability

Description: EG&G, Engineering Science and G&M assessment of available resources to

accomplish the work proposed in the alternate strategy.

Title: **#15 Modify DD & CD**

Description: Revise DD and CD to reflect alternative selected.

Title: **#16 Include B788/RCRA #21 & #48 in DD**

Description: Revise the IM/IRA DD to include the removal of RCRA units #21 and #48. Building 788 will also be incorporated if its removal is required.

Title: **#17 Review DD**

Description: Self Explanatory.

Title: **#18 Brief DOE on B788 Approach and Organization**

Description: EG&G brief to the DOE concerning OU-4 approach to incorporate the RCRA units 21 and 48, and the B788 removals into the OU-4 IM/IRA DD.

Title: **#19 Develop Schedule for Leaching Determinations**

Description: Development of methodology to achieve the selection alternative. This schedule will include all logic ties and durations.

Title: **#20 Assess Funding**

Description: Both an E.S. and EG&G estimation of the cost to perform this alternative analysis. Also, a comparison of this estimate to the current funding will be made to assess the additional amount required to complete the work. Also, a determination will be made as to what portions of the work are out of scope of the existing EG&G/ES contract thereby requiring contract modifications.

Title: **#21 Assess Acceleration Objectives**

Description: Project Design schedule assessment, including defined construction requirements (necessity of the early field activities), and the further acceleration of the Title II design and construction activities.

Title: **#22 Develop Schedule to Execute Alternative**

Description: Development of a preliminary schedule which will be used as a tool to assess the increase/decrease in the times required to perform the work from all aspects of the project (design engineering, construction, etc.).

Title: **#23 Get Revised IAG Milestones**

Description: Formal transmittal to the CDH and the EPA of the new proposed IAG milestones, regulators internal review of the proposed milestones and their written response.

Title: **#24 Select Alternative / Key Decision**

Description: Presentation of the proposed recommended alternative based on the data and information obtained, Joint Working Group review and team concurrence on the

option.

Title: **#25 Finish DD Process**

Description: Self Explanatory.

Title: **#26 Start Construction**

Description: Milestone to start the construction of closure related activities.

Title: **#27 Non-Closure Construction**

Description: Implementation of any/all preliminary construction (non-closure) activities as identified in the assessment of the acceleration objectives.

Title: **#28 Re-assess Current leaching /Modeling**

Description: Re-evaluate the saturated leach modeling as presented in Part IV of the IM/IRA.

Title: **#29 Investigate Upgradient / Downgradient**

Description: Evaluation of currently available groundwater data, upgradient and downgradient of ponds.

Title: **#30 Establish COCs / PRGs for Groundwater**

Description: ES establishment of COC's and PRGs for groundwater.

Title: **#31 Establish Soil Concentrations That Are Protective of Groundwater**

Description: Evaluation of the existing data to assess impacts to groundwater.